

Declaration and Power of Attorney For Patent Application

English Language Declaration

COPY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

RADIO-WAVE ARRIVAL-DIRECTION ESTIMATING APPARATUS AND DIRECTIONAL VARIABLE TRANSCEIVER

the specification of which is attached hereto unless the following box is checked:

was filed on December 12, 2001 as

United States Application Number or PCT International Application Number 10/020,477
December 12, 2001
and was amended on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. §119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)	Priority Not Claimed
------------------------------	----------------------

<u>2000-377003</u>	<u>Japan</u>	<u>12/12/2000</u>
--------------------	--------------	-------------------

(Number)	(Country)	(Day/Month/Year Filed)
----------	-----------	------------------------

<u> </u>	<u> </u>	<u> </u>
(Number)	(Country)	(Day/Month/Year Filed)

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

<u> </u>	<u> </u>
(Application Number)	(Filing Date)

<u> </u>	<u> </u>
(Application Number)	(Filing Date)

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Number)

(Filing Date)

(Status - patented, pending, abandoned)

(Application Number)

(Filing Date)

(Status - patented, pending, abandoned)

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Robert L. Andersen	Reg. No. 25,771	Lawrence E. Ashery	Reg. No. 34,515	Steven E. Bach	Reg. No. 46,530
Daniel N. Calder	Reg. No. 27,424	Lowell L. Carson	Reg. No. 48,548	Kevin R. Casey	Reg. No. 32,117
Joshua L. Cohen	Reg. No. 38,040	Matthew I. Cohen	Reg. No. 48,133	Rex A. Donnelly, IV	Reg. No. 41,712
Jacques L. Etkowicz	Reg. No. 41,738	Kevin W. Goldstein	Reg. No. 34,608	William P. Hauser	Reg. No. 26,277
Jack J. Jankovitz	Reg. No. 42,690	Costas S. Krikilis	Reg. No. 28,028	Benjamin E. Leace	Reg. No. 33,412
Christopher R. Lewis	Reg. No. 36,201	Bruce M. Monroe	Reg. No. 33,602	Andrew L. Ney	Reg. No. 20,300
Hoang Steve Ngo	Reg. No. 42,932	Kenneth N. Nigon	Reg. No. 31,549	Pamela D. Politis	Reg. No. 47,865
Paul F. Prestia	Reg. No. 23,031	Allan Ratner	Reg. No. 19,717	James C. Simmons	Reg. No. 24,842
Jonathan H. Spadt	Reg. No. 45,122	Camille Jolly-Tornetta	Reg. No. 48,592		

Address all correspondence to: Lawrence E. AsheryRatner & Prestia, Suite 301, One Westlakes, Berwyn, P.O. Box 980, Valley Forge, PA 19482-0980Address all telephone calls to: Lawrence E. Ashery at (610) 407-0700.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor (given name, family name) Takaaki KishigamiInventor's signature Takaaki Kishigami Date February 7, 2002Residence KanagawaCitizenship JapanesePost Office Address 3-10-3-201, Ikuta, Tama-ku, Kawasaki-shi,
Kanagawa 214-0038, JapanFull name of second joint inventor, if any (given name, family name) Takashi FukagawaSecond Inventor's signature Takashi Fukagawa Date February 7, 2002Residence KanagawaCitizenship JapanesePost Office Address 1-10-1-203, Gorikida, Asao-ku, Kawasaki-shi,
Kanagawa 215-0025, Japan

Additional inventors are being named on separately numbered sheets attached hereto.

Full name of third joint inventor, if any (given name, family name) Yasuaki Yuda

Third inventor's signature Yasuaki Yuda Date February 7, 2002

Residence Kanagawa

Citizenship Japanese 3-33-17-108, Sugao,
Post Office Address Miyamae-ku, Kawasaki-shi,
Kanagawa 216-0015, Japan

Full name of fourth joint inventor, if any (given name, family name) Masayuki Hoshino

Fourth inventor's signature Masayuki Hoshino Date February 7, 2002

Residence Kanagawa

Citizenship Japanese 1-30-20-B102, Nobi,
Post Office Address Yokosuka-shi,
Kanagawa 239-0841, Japan

Full name of fifth joint inventor, if any (given name, family name) _____

Fifth inventor's signature _____ Date _____

Residence _____

Citizenship _____

Post Office Address _____

Full name of sixth joint inventor, if any (given name, family name) _____

Sixth inventor's signature _____ Date _____

Residence _____

Citizenship _____

Post Office Address _____

Full name of seventh joint inventor, if any (given name, family name) _____

Seventh inventor's signature _____ Date _____

Residence _____

Citizenship _____

Post Office Address _____
